

2. These fuels are typically kerosene-based but are formulated with additives to improve safety and

3. Instead, hobbyists use special **turbine fuels** that are safer, more readily available, and less expensive.

ChatGPT: Kerosene used in hobbyist RC jet engines often benefits from additives to improve safety and performance, especially in smaller engines where issues like ignition and combustion are more critical. The additives typically address these areas:

* *****Lubricity Enhancers***** Kerosene itself offers poor lubrication for the engine's moving parts (bearings, pumps, etc.). Additives providing lubrication are crucial to prevent wear and tear. These can include ****synthetic esters**** or other specialized lubricating oils formulated for high-temperature operation. Again, castor oil was historically used, but its drawbacks are significant.

****Stability Additives:**** These prevent the fuel from breaking down or degrading over time, maintaining its performance characteristics during storage. This is important as improperly stored kerosene can gum up the engine or change its ignition properties.

****!!!!!!!-->Important Note:**** *The exact composition of these additives is often proprietary to the fuel manufacturer.* <-----!!!! It's crucial to use fuels specifically formulated for RC jet engines and to follow the manufacturer's recommendations. Using unsuitable or improperly mixed additives can severely damage the engine or create safety hazards. Improperly formulated fuel can lead to engine misfires, increased wear, or even catastrophic engine failure.

1. Notice how ChatGPT did NOT tell us what additives make the Jet fuel “safer”, but only told us how smoke, stability, corrosion, lubrication and even “IGNITION IMPROVER” is added... then when it concludes its remarks, CONVENIENTLY teills us the composition is PROPRIETARY. Really? Later, note

You're raising a valid point about the realism and definition of "scale model" in the context of hobbyist RC jet aircraft. The argument hinges on the degree of fidelity to the original. ***While many hobbyist RC jets strive for visual accuracy, replicating internal systems like fuel tank placement in the wings is often impractical, if not impossible, due to size, weight, and safety constraints.***

The fact that some hobby RC jets are oversized doesn't negate the scale aspect entirely; they might still maintain accurate proportions, even if the overall size is exaggerated for practical reasons. It's a scaling up to allow for more readily available and powerful components.

*** **Space:** Scaling down a fuel tank proportionally to a miniature aircraft leaves very little room for actual fuel. The tank would be minuscule and impractical.**

*****Safety:***** Storing fuel within the model wings introduces significant safety risks. Leaks or damage could easily lead to a fire.

Therefore, while a truly scale model *might* incorporate wing-mounted fuel tanks, it's generally impractical for hobbyists. The compromise is often to prioritize other aspects of realism – the external shape, the engine sound, and the flight characteristics – while accepting some deviation from the internal structure of the full-scale counterpart. In essence, the focus shifts from perfect internal replication to a balance between visual realism and practical functionality for the hobbyist context. Calling these models "scale models" is a simplification, but commonly accepted, understanding the limitations. **They are scale *representations*, prioritizing realistic visuals over complete internal structural replication.**

1. **Space:** Scaling down a fuel tank proportionally to a miniature aircraft leaves very little room for actual fuel. The tank would be minuscule and impractical.
2. **Weight:** Even a small, proportionally scaled tank would add significant weight
3. **Complexity:** Integrating and sealing a miniature fuel tank within a model wing is a complex engineering task

Are there regulations that restrict the sale of hobbyist RC modified kerosene jet fuel in every state or are there national or international rules? What are the top 10 sources for RC Jet fuel? 7:13 AM 7:14 AM

There isn't a comprehensive set of regulations specifically targeting the sale of hobbyist-modified kerosene jet fuel across all US states or internationally. The regulations that *do* apply are often indirect and depend on several factors, including:

7:14 AM

1. *Many hobbyists blend their own fuel*

2. * **RC hobby forums and websites:** Online communities focused on RC jets will often have threads discussing fuel sources and preferred suppliers.... Rick says--- I haven't checked REDDIT for this but it seems to me REDDIT might be a source for this.